



### GPDSAT System Overview

**GPDSAT** is a smart system, combined with a high technology and an advanced software algorithm for the tracking field – both for security and fleet management, as well as locating assets and people.

The system uses advanced software algorithms for field tracking of vehicles and provides customers with a selection of real-time information about the tracked vehicle.

Due to its versatility, you can use the **GPDSAT** for any of the following applications:

- Sending real-time text messages to vehicle owners
- Protecting vehicles from theft
- Securing domestic and business premises
- Managing business enterprises
- Managing large databases, for example, population statuses and digital maps
- Tracing vehicles and calls

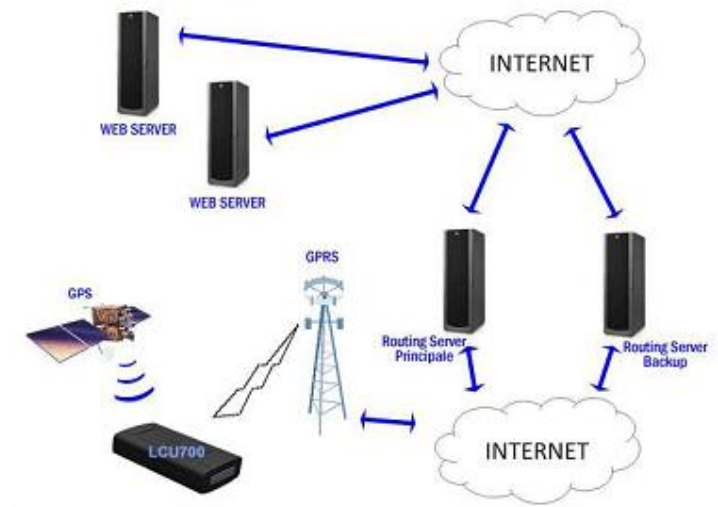
The **GPDSAT** system consists of:

- The mobile unit **LCU700**
- The communication layer of the cellular network
- Web application **GPD ONLINE**
- Routing Application

The **GPDSAT LCU700** is able to communicate through various channels – GPRS/1x/SMS in GSM/CDMA networks, using TCP/IP and SMPP protocols, modem terminal connection, and private networks.

The communication between the units and **GPD** suite of software is going through the GPRS channel, (For GSM networks - 1x for CDMA networks) or the SMS channel. There are different communication protocols being used in the **GPD** system: TCP/IP protocol, the SMPP protocol, direct cable connection, private network and the UDP protocol for external applications.

The following figure describes the components of the **GPDSAT** System.



### GPDSAT LCU700 Technical Specifications

The following table describes the technical specifications of the **LCU700**:

Specification	Description	
Supply	Voltage	8V-32V (in one unit)
	Power	1 mA (sleep mode) – 92 mA (transmit)
Temperature	Operational	-40°C to 60°C
	Storage	-40°C to 85°C
Operating humidity	50% – 80%	
Measurement	4.701 x 61 x 21 or 24.5 mm (Motorola), 150 grams	
Cellular modem	GSM	Motorola G24-L, Quad Band (850, 900, 1800, 1900). Built in antenna
Network	Data	GSM, GPRS, and SMS
	Voice	Headset kit available
Messages	SMS	Encrypted protocol
	GPRS	TCP/IP over PPP
CPU capacity	Static RAM	128 Kb
	Nonvolatile memory	34 Kb
	Flash memory	2048 Kb
Alarm system	Immobilizers	External – usage as gradual stop
	Disarming options	Keypad, Dallas key, remote control, transponder
		Remote control with keypad
Backup battery	Type	Varta PoLiFlex, 800-1200 mAh
Comm port	RS232	115,200 bps (default)

### Available Configurations

	<b>Basic</b>	<b>Logger</b>	<b>Advanced</b>
<b>GPS</b>	Built in	Built in	Built in
<b>GSM</b>	+	-	+
<b>ZIGBEE</b>	-	+	Optional
<b>Connector</b>	5 pins USB	24 pins Molex	24 pins Molex
<b>Accelerometer</b>	Optional	Optional	Optional
<b>CANBUS</b>	-	+	+
<b>Use</b>	Track and trace Basic functions	Full fleet w/o GSM communication costs	Full featured